

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An amplitude limiting apparatus having:

differential signal generating means for generating a differential signal representing a difference between a portion of a subject signal to be limited in amplitude in excess of ~~any a~~ limit prescribed for the amplitude of the subject signal and the limit, and amplitude limiting means for limiting the amplitude of the subject signal by subtracting the generated differential signal from the subject signal.

2. (Currently Amended) The amplitude limiting apparatus according to Claim 1, further having ~~a~~ filtering means for filtering the generated differential signal to pass only a prescribed band content of the differential signal, wherein:

the amplitude limiting means ~~limit~~ limits the amplitude of the subject signal by subtracting the filtered ~~generated~~ differential signal from the subject signal.

3. (Currently Amended) The amplitude limiting apparatus according to Claim 2, wherein

the subject signal is in a digital form, and each of the differential signal generating means, the amplitude limiting means and the filtering means ~~carry~~ carried out by digital processing respectively ~~the generation to generate~~ of the differential signal, ~~the limit the amplitude limitation of the subject signal and the filtering of filter~~ the differential signal.

4. (Currently Amended) The amplitude limiting apparatus, according to Claim 3, further ~~having including a~~ mapping means for mapping digital transmission signals to be transmitted in a plurality of symbols, and

IFFT processing means for subjecting the plurality of symbols obtained by the mapping to IFFT processing to generate a multi-carrier synthetic signal in a digital form containing a plurality of subcarrier components, wherein

~~the limiting of the amplitude limitation is carried out on the generated multi-carrier synthetic signal as the subject signal.~~

5. (Currently Amended) The amplitude limiting apparatus according to Claim 4, wherein the filtering means ~~allow~~ allows the passage of ~~each~~ one or more of the subcarrier components contained in the multi-carrier synthetic signal with a prescribed output gain.

6. (Currently Amended) A multi-carrier signal generating apparatus having:
multi-carrier signal generating means for generating a multi-carrier signal in a digital form containing a plurality of subcarrier components, and
amplitude limiting means for limiting an amplitude of the generated multi-carrier signal, wherein

the amplitude limiting means ~~have~~ including:
differential signal generating means for generating a differential signal representing a difference between a portion of the generated multi-carrier signal to be limited in amplitude in excess of ~~any~~ a limit prescribed for the amplitude of the multi-carrier signal and the limit,

one or more filtering means for filtering the generated differential signal, each of the filtering means ~~taking~~ filtering out one of one or more combinations of a plurality of bands contained in the multi-carrier signal, the ~~taken~~ each filtered-out one band differing from that or those bands taken out by ~~other~~ another one of the one or more filtering means, and
limiting means for limiting the level of the multi-carrier signal by subtracting from the generated multi-carrier signal one or more combinations of a plurality of the bands ~~taken~~ filtered out of the differential signal.

7. (Currently Amended) A multi-carrier signal generating apparatus having:
multi-carrier signal generating means for generating a multi-carrier signal in a
digital form containing a plurality of subcarrier components, and
a plurality of amplitude limiting means each for limiting an amplitude of the
generated multi-carrier signal, wherein

each of the plurality of amplitude limiting means ~~has~~ including:
differential signal generating means for generating a differential signal
representing a difference between a portion of the generated multi-carrier signal to be limited
in amplitude in excess of ~~any~~ ~~a~~ limit prescribed for the amplitude of the multi-carrier signal and
the limit,

filtering means for filtering the generated differential signal, the filtering means
~~taking filters out~~ one of one or more combinations of a plurality of bands contained in the
multi-carrier signal, ~~the taken each filtered-out band one~~ differing from that or ~~those~~ ~~another~~
~~band filtered taken out by other~~ the filtering means, and

limiting means for limiting a level of the multi-carrier signal by subtracting from
the generated multi-carrier signal one of the one or more combinations of a plurality of ~~of the~~
~~bands taken filtered out~~ of the differential signal,

each limiting of the level of the multi-carrier signal entered from the multi-
carrier signal generating means or the amplitude limiting means of a preceding stage.

8. (Currently Amended) The multi-carrier signal generating apparatus, according
to Claim 7, wherein each of the filtering means ~~takes filters out~~ one, differing from that or
~~those taken filtered out by the filtering means of the other~~ ~~another~~ amplitude limiting means, of
the one or more combinations of a plurality of bands contained in the multi-carrier signal, with
the same gain as or a different gain from those of the filtering means of the ~~other~~ ~~another~~
amplitude limiting means.

9. (Currently Amended) The multi-carrier signal generating apparatus, according to Claim 6, wherein each of the filtering means ~~takes filters~~ out one of the one or more combinations of a plurality of subcarrier component bands contained in the multi-carrier signal.

10. (Currently Amended) The multi-carrier signal generating apparatus, according to Claim 6, further provided with digital-to-analog converting means for converting the multi-carrier signal whose level is limited into transmission signals in an analog form, and power amplifying means for amplifying the power of the analog form transmission signals.